GAVIN FOX

CONTACT INFO

Email
4gdfox@gmail.com

Phone
610-717-8608

LinkedIn
linkedin.com/in/gavin-fox4

GitHub
github.com/F0xy25/Portfolio

EDUCATION

Drexel University
- Overall
- BS Mechanical Engineering
- Computer Science Minor
- Data Science Minor

GPA
3.20
3.13
3.66
3.83

Anticipated Graduation
June 2022

CERTIFICATIONS & CLEARANCES

US Department of Defense Security Clearance: Secret
Issued Sep 2019

Google Data Analytics Professional Certificate
Issued May 2021

IBM AI Engineering Professional Certificate
Issued Jul 2021

IBM Machine Learning Professional Certificate
Issued Aug 2021

AWARDS

CiRight Design Competition Winner – Medical Device Category 2019

Baiada Institute- Distinguished Company Award 2019

SKILLS

Coding Languages

Python	JavaScript
C++	MATLAB
SQL	

Programs and Structures

AWS	Blender
Creo	Unreal Engine
Fusion 360	
EPIC	
NVIDIA Jetpack	

Hardware and Sensors

Windows	Mac
Linux	iOS
NVIDIA Jetson	Android
Raspberry Pi	Apple Watch
Arduino	Garmin Fenix
	Oura Ring

EXPERIENCE

SENIOR TECHNICAL SPECIALIST: HUMAN MACHINE SYMBIOSIS

Lockheed Martin Advanced Technology Laboratory, Cherry Hill, NJ

September 2020 – March 2021

- Generated model for detecting and classifying possible future disease diagnoses from self-reported symptom surveys
- Developed program to create node-based, temporal collaboration networks and analyze foreign entity market penetration
- As a member of the product commercialization team, assisted in securing a six-figure contract from a commercial partner

TECHNICAL SPECIALIST: HUMAN MACHINE SYMBIOSIS

Lockheed Martin Advanced Technology Laboratory, Cherry Hill, NJ

September 2019 – September 2020

- Pitched and developed mobile eye-tracking solution for use in the detection of TBI and Infectious Disease; traveled to Arlington, VA to present work to DARPA
- Managed Human Subjects Research studies and related data collects; provided advice and feedback to program developers
- Developed program to detect biometric signal propagation through a population based on proximity

FOUNDER AND CEO

DragonSci Biomedical, Philadelphia, PA

October 2017 – Present

- Engineered and fully fabricated a patent-pending smart pill container specifically designed to combat the Opioid Epidemic
- Currently designing a placebo trial with UPENN Orthopedics
- Received Support from Pennsylvania Department of Health and UPENN Hospital and backing from Drexel University Innovation Studio and Drexel University Baiada Institute

CLINICAL RESEARCH ASSISTANT

UPENN Neurosurgery Clinical Research Division, Philadelphia, PA

September 2018 – September 2019

- Oversaw the use of trial devices by neurosurgeons and nursing staff during surgery
- Transported biological samples from Operating Room and handled sample storage and fulfillment of external tissue requests
- Visited directly with patients and patient's families, discussed relevant trials, and acquired informed consent

RESEARCH

RESEARCH ASSISTANT

Biomaterials Department, Drexel University, Philadelphia, PA

September 2017 – May 2018

- Performed mechanical testing of a range of concentrations of silicone and gelatin using a capillary rheometer
- Presented completed model to doctors and clinicians at Hahnemann Hospital
- Consulted with team about findings and how to improve overall design of uterine model for training in manual vacuum aspiration
- Briefed team on observations made during testing of PEEK cages used for vertebral disc replacement
- Operated 3D printing rig and furnace necessary for the fabrication and annealing of PEEK cages
- Performed data recording in MATLAB and model testing in both the physical environment and Fusion 360 software